NAME INDEX.

BAARS, G., on Separation of Gases, 238
BAGLEY, D., on Separation of Gases, 237
BORCHARDT, P., on Separation of Gases, 231–234
BRANCKER, A. V., HUNTER, T. G., and NASH, A. W., Mixed-Solvent Extraction, 15–26
BROOKS, R. L., Preservation of Timber, 63–81
BUSHE, L. A., on Casing Cementation, 10, 13
——, on Preservation of Timber, 78, 79, 80

CARTER, A., at Twenty-ninth Annual General Meeting, 95
——, on Separation of Gases, 237
CONKLIN, G. M., Gamma-Ray Well-Logging in Trinidad, 141–145, 172–175

DABELL, A. F., A Note on Oil Fires, 297
DALLEY, C., at Twenty-ninth Annual General Meeting, 95
DARLEY, H. C. H., on Casing Cementation, 12
DAVIDSON, R. R., on the late Professor Nash, 101
DEE, T. P., on Separation of Gases, 234
DEWHURST, T., Parliamentary and Scientific Committee, 281–283
DONNELLY, R. P., on Separation of Gases, 235
DRAPER, P., Spring Tension Balance for C.F.R. Bouncing Pin, 209–213
DUNSTAN, A. E., at Twenty-ninth Annual General Meeting, 94
——, on the late Professor Nash, 99–100

EGLOFF, G., and VAN ARSDELL, P. M., Substitute Fuels as a War Economy, 116–132

FULLERTON, J. D., on Preservation of Timber, 78

GARNER, F. H. *See* JU, T. Y.
GOODAY, W. E., Conservation of Lubricating Oil, 285
GREEN, S. J., Cyclization of Hydrocarbon Mixtures, 179–208

HALSE, G. W., Hombre Pintado, Venezuela, 36–40
HANKEY, The Rt. Hon. Lord, Speech at Luncheon of Parliamentary and Scientific Committee, 57–58
HANSON, D., on the late Professor Nash, 100
HEALEY, N., and PEASE, S. L., Hardening Times for Casing Cementation, 1–14
HOBSON, G. D., Graphical and Mechanical Determination of the True Dip from Magnetically Orientatable Cores taken in Crooked Holes, 274–280
HOWES, D. A., on the late Professor Nash, 101
HUNTER, T. G., on the late Professor Nash, 100–101
——. *See also* BRANCKER, A. V.

JU, T. Y., WOOD, C. E., and GARNER, F. H., Cetane Numbers and Physical Properties of Normal Alkyl Benzenes and other Hydrocarbons. Part III—Evaluation of *n*-Alkyl Benzenes and Certain Related Hydrocarbons as Diesel Fuels, 159–171

KNIGHTS, J. W., on Casing Cementation, 12

LOW, R. J., on Separation of Gases, 234

MARDALL, G., on Preservation of Timber, 78
MAY, C. J., and PIKE, R., Value and Accuracy of Field Measurements, 133–140

NASH, A. W. *See* BRANCKER, A. V.
NEPPE, S. L., New Method for the Determination of equivalent cracking conditions for commercial cracking reactions, 27–35
——, Technical Study of Transvaal Torbanite, 104–108
NISSAN, A. H., Development of a capillary viscometer to measure viscosities in excess of 10 poises, 41–56
——, Flow of Liquids under Critical Conditions, 257–273
——, Reservoirs under Hydraulic and Volumetric Controls, 146–157

OLDHAM, B. C., on Separation of Gases, 239
ORIEL, J. A., on Separation of Gases, 235

NAME INDEX.

BAARS, G., on Separation of Gases, 238
BAGLEY, D., on Separation of Gases, 237
BORCHARDT, P., on Separation of Gases, 231–234
BRANCKER, A. V., HUNTER, T. G., and NASH, A. W., Mixed-Solvent Extraction, 15–26
BROOKS, R. L., Preservation of Timber, 63–81
BUSHE, L. A., on Casing Cementation, 10, 13
——, on Preservation of Timber, 78, 79, 80

CARTER, A., at Twenty-ninth Annual General Meeting, 95
——, on Separation of Gases, 237
CONKLIN, G. M., Gamma-Ray Well-Logging in Trinidad, 141–145, 172–175

DABELL, A. F., A Note on Oil Fires, 297
DALLEY, C., at Twenty-ninth Annual General Meeting, 95
DARLEY, H. C. H., on Casing Cementation, 12
DAVIDSON, R. R., on the late Professor Nash, 101
DEE, T. P., on Separation of Gases, 234
DEWHURST, T., Parliamentary and Scientific Committee, 281–283
DONNELLY, R. P., on Separation of Gases, 235
DRAPER, P., Spring Tension Balance for C.F.R. Bouncing Pin, 209–213
DUNSTAN, A. E., at Twenty-ninth Annual General Meeting, 94
——, on the late Professor Nash, 99–100

EGLOFF, G., and VAN ARSDELL, P. M., Substitute Fuels as a War Economy, 116–132

FULLERTON, J. D., on Preservation of Timber, 78

GARNER, F. H. *See* JU, T. Y.
GOODAY, W. E., Conservation of Lubricating Oil, 285
GREEN, S. J., Cyclization of Hydrocarbon Mixtures, 179–208

HALSE, G. W., Hombre Pintado, Venezuela, 36–40
HANKEY, The Rt. Hon. Lord, Speech at Luncheon of Parliamentary and Scientific Committee, 57–58
HANSON, D., on the late Professor Nash, 100
HEALEY, N., and PEASE, S. L., Hardening Times for Casing Cementation, 1–14
HOBSON, G. D., Graphical and Mechanical Determination of the True Dip from Magnetically Orientatable Cores taken in Crooked Holes, 274–280
HOWES, D. A., on the late Professor Nash, 101
HUNTER, T. G., on the late Professor Nash, 100–101
——. *See also* BRANCKER, A. V.

JU, T. Y., WOOD, C. E., and GARNER, F. H., Cetane Numbers and Physical Properties of Normal Alkyl Benzenes and other Hydrocarbons. Part III—Evaluation of *n*-Alkyl Benzenes and Certain Related Hydrocarbons as Diesel Fuels, 159–171

KNIGHTS, J. W., on Casing Cementation, 12

LOW, R. J., on Separation of Gases, 234

MARDALL, G., on Preservation of Timber, 78
MAY, C. J., and PIKE, R., Value and Accuracy of Field Measurements, 133–140

NASH, A. W. *See* BRANCKER, A. V.
NEPPE, S. L., New Method for the Determination of equivalent cracking conditions for commercial cracking reactions, 27–35
——, Technical Study of Transvaal Torbanite, 104–108
NISSAN, A. H., Development of a capillary viscometer to measure viscosities in excess of 10 poises, 41–56
——, Flow of Liquids under Critical Conditions, 257–273
——, Reservoirs under Hydraulic and Volumetric Controls, 146–157

OLDHAM, B. C., on Separation of Gases, 239
ORIEL, J. A., on Separation of Gases, 235

PEASE, S. L. *See* HEALEY, N.
PIKE, R. *See* May, C. J.
PLEETH, S. J. W., Examination of Ethyl Alcohol and Alcohol Blends for use as Motor Fuel, 240–256
——, Reid Vapour Pressure of Alcohol Blends, 113–114

RUHEMANN, M., Separation of Gases, 215–231, 236–237, 239

SCHUFTAN, P. M., on Separation of Gases, 231
SCOTT, G. H., on Casing Cementation, 11, 13, 14
——, on Preservation of Timber, 78, 80
SMITH, Dr. J. E., on Casing Cementation, 13

TAITT, G. S., Note on the Sealing Effect of Fault Surfaces, 109–112
——, on Casing Cementation, 12, 13
TINDALL, F. H. L., on Casing Cementation, 13
TIZARD, Sir Henry T., Speech at Luncheon of Parliamentary and Scientific Committee, 58–60
TRANSVAAL CHAMBER OF MINES, OIL ADVISORY COMMITTEE, Conservation of Lubricating Oil, 285
TUNGAY, S. J., on Separation of Gases, 237

VAN ARSDELL, P. M. *See* EGLOFF GUSTAV.

WHITE, L. K., on Preservation of Timber, 79
WOOD, C. E. *See* JU, T. Y.

SUBJECT INDEX.

Alcohol blends :
  Reid Vapour Pressure, 113–114
  examination, 240–256
Alcohol, ethyl, examination, 240–256
Annual General Meeting, 94
Annual Report, 83

Balance, spring tension for C.F.R. Bouncing Pin, 209–213

Cementation, casing, hardening times for, 1–14
Cracking conditions, determination of equivalent, 27–35

Dip, true, determination, 274–280

Fault surfaces, sealing effect, 109–112
Field Measurements, value and accuracy, 133–140
Fires, oil, 297
Fuels, substitute, as war economy, 115–132

Gases, separation of, 215–239

Hydrocarbons :
  cetane numbers and physical properties, 159–171
  cyclization, 179–208

Liquids, flow of, under critical conditions, 257–273
Lubricating oil, conservation, 285

Mixed-solvent, extraction, 15–26

Normal alkyl benzenes, cetane numbers and physical properties, 159–171

Obituary :
  Andrew, A. R., 61
  Bragg, W., 102
  Edeleanu, L., 61
  Mitchell, N., 103
  Nash, A. W., 97
  Pilat, S., 176
  Romanes, J., 214
  Singer, L., 177

Parliamentary and Scientific Committee :
  Luncheon, 57–60
  activities, 281

Reservoirs, hydraulic and volumetric control, 146–157

Timber, preservation, 63–81
Torbanite, Transvaal, study, 104
Trinidad Branch, annual report, 91

Venezuela, Hombre Pintado, 36–40
Viscometer, capillary, development of, 41–56

Well-logging, Gamma ray, 141–145, 172–175

Printed in Great Britain by Richard Clay and Company, Ltd., Bungay, Suffolk

ABSTRACTS AUTHOR INDEX.

The numbers refer to the Abstract Numbers.

Abadie, H. G., 259
Abegg, W. A., 524
Abernathy, G. E., 215
Abernathy, J. H., 444
Abson, G., 747
Adams, C. E., 194
Adams, C. P., 78
Adams, E. W., 376
Adams, O., 1132
Adkins, H., 98
Adkison, J. H., 888, 890
Adler, J. L., 702
Agruss, M. S., 187
Ahlberg, J. E., 455, 458, 787
Ainsley, W. G., 270
Alberta Soc., P. G., 3
Albright, J. C., 90, 329, 541, 628, 789, 791, 986
Alcorn, I. W., 310, 428
Alden, R. C., 777, 1106
Allam, P. S., 197
Alleman, G., 1016
Allen, N. D., 52
Ambler, C. M., 455
Amero, E. C., 341
Anderson, A. P., 121
Anderson, W. W., 66, 128
Andrews, A. C., 130
Andrews, T. A., 629
Angell, C. H., 448
Anglo-Iranian Oil Co., 74, 194, 337, 775, 994
Appalachian Geol. Soc., 9
Applin, P. L., 651
Arabian, K. G., 117
Archer, W. L., 454, 566, 1068
Archibald, F. M., 187
Arend, A. G., 378, 733
Armentrout, A. L., 66
Armfield, F. A., 1115
Arnold, J. C., 978
Arnquist, W. N., 125
Arndell, P. M., 949
Aruitunoff, A., 324, 989
Arveson, M. H., 111, 587, 1121
Asbury, W. C., 738
Assaf, A. G., 123, 1092
Asseff, P. A., 115
Astron, J. G., 463
Athy, C. R., 249
Athy, L. F., 159
Atwell, H. V., 111
Atwill, E. R., 655
Ayers, G. W., 187

Backoff, W. J., 813, 1005
Badertscher, D. E., 115, 374, 376
Badgr, R. M., 120
Bahlke, W. H., 197
Bailey, J. R., 99, 100, 473
Baker, R. C., 524, 547
Baker, W. L., 26
Baldwin, H. C., 491
Ball, J. E., 490
Ball, J. S., 370
Ballagh, J. C., 414
Balsbaugh, J. C., 123, 1092
Barker, E. L., 824, 989, 1070
Barnard, E. R., 1009
Barnes, R. B., 66
Barrett, G. J., 52
Barstow, O. E., 989
Barth, E. J., 1122
Bartlett, J. H., 197, 1009
Bartok, A. W., 59
Bass, N. W., 210, 392, 393
Bass, S. L., 1016
Bataafsche Petroleum Maatschappij N.V. de, 95, 128, 187, 194
Batschelder, D. E., 249
Bates, J. R., 1073
Bates, R. L., 500
Bates, W. F., 1054
Batzell, E. E., 203
Baum, S. J., 1080
Baum, V. E., 249
Bays, G. S., 989
Beach, F. K., 832
Beavon, D. K., 1104
Bechtold, I. C., 580, 1097
Beckman, A. O., 120
Beckwith, R. H., 391
Beerbower, A., 115, 1009
Beers, L. C., 52, 169
Behnke, G. E., 978
Beljaev, G., 216
Bell, A. H., 53
Bell, E. A., 263, 828
Bell, H. W., 877
Benedict, W. L., 360, 448, 455, 807, 993
Bennett, E. O., 530, 919, 989
Bent, F. A., 66, 171
Bent, R. D., 350
Berger, H. G., 115, 376
Bergstrom, R. F., 376, 746
Berl, E., 262
Bertagnolli, A. J., Jr., 205
Bettis, W. F., 171
Bettmann, B., 128
Betts, J. R., 942
Bier, R. W., 66
Bigelow, L. A., 485
Bilmes, L., 273
Birgen, D. E., 746
Biscoe, J., 961
Biske, V., 808
Bissell, E. S., 356
Blackstone, H. A., 357
Blair, C. M., Jr., 171, 989
Bland, R. E., 84
Bliss, H. L., 466
Blizzard, E. W., 1111
Bloch, H. S., 443
Block, H. S., 365
Bloesch, E., 418
Bloss, R. R., 524
Bolton, R. F., 249
Bond, D. C., 414
Bonnet, C. F., 66, 128
Booth, R. B., 615
Borst, W. B., 1084
Bosco, F. N., 252, 594
Bost, R. W., 484
Botkin, D. P., 1060
Botsford, C. W., 414
Bottomley, H., 267, 345, 362
Boughton, R. C., 942
Bowles, V. O., 786
Bowkay, M. C., 978
Bowster, A. L., 388
Boyer, R. L., 191
Boynton, A., 52, 66, 159, 171, 249, 414, 524, 547, 615, 629, 942, 989, 1070
Brace, O. L., 1032
Bradley, J. R. 383
Bradley, W. E., 994
Bradner, J. P., 989
Bragg, L. B., 268, 351
Brancker, A. V., 107, 269
Bransky, D. W., 187
Brant, A. A., 403, 404
Brantly, J. E., 524
Brauer, W., 249, 615, 978
Bravinder, K. M., 1020
Bray, U. B., 376, 644, 795, 811, 1001, 1009
Breaker, J., 323
Brenot, W. H., 66
Bridwater, E. R., 1077
Bridwell, C. E., 629
Briggs, R. A., 476
British Thomson-Houston Co. Ltd., 646
Broche, H., 128
Brockschmidt, C. L., 779
Brooks, B. T., 811, 1009
Broom, H. P., 71
Broome, D. C., 273
Brown, C. C., 989
Brown, G. G., 783
Brown, N. F., 66
Brown, T. J., 734
Brown, W. R., 435
Browne, W. H., 129
Bruce, W. A., 543
Brunberg, A. H., 978
Bruner, F. H., 339
Brunstrum, L. C., 376
Bryan, T. B., 547
Buchan, R. C., 529
Buchanan, J. W., 978
Buchner, C. R., 906
Buckner, N. W., 66
Budd, K. F., 445
Burk, R. E., 812, 1009, 1010
Burke, M. P., 66, 942
Burns, L. G., 115
Burt, C. E., 989
Burton, M., 461
Bush, R. D., 140, 965
Bussow, C., 119
Butler, J. W., 1025
Byrkit, G. D., 115, 197, 746, 1109

Caesar, P. D., 1076
Cailloux, J. F., 989
Campbell, D. L., 1001
Campbell, E. A. 978
Campbell, H. G., 159
Campbell, J. M., 381
Campbell, K. N., 480
Campbell, S. E., 360
Capell, R. G., 341
Capinjola, J. U., 465
Cardwell, H. W., 52, 547
Carlisle, C. C., 942
Carlson, E. W., 201
Carlson, L., 1082
Carney, T. P., 479
Carothers, W. F., 524
Carpenter, C. E., 159
Carr, D. E., 644
Carr, R. H., 66
Carruthers, R. L., 989
Carson, H. Y., 324
Carvalho, E. de, 228
Case, L. C., 1030
Casey, S. R., 401
Catanach, A. E., 360
Catland, A. C., 52

Cattaneo, A. G., 1130
Cattell, R. A., 199, 758
Chamberlain, L. C., 52, 66, 262, 989
Chaney, N. K., 633
Chappell, M. L., 365
Charles, C. L., 978
Charles, R. S., 262
Chechot, V. L., 795, 1001
Chenault, R. L., 171
Chenault, W. B., 343, 1001
Childers, R. O., 524
Childs, W. L., 52
Chrisman, J. L., 615
Christmann, F., 115, 1009
Chun, M. E., 262, 1070
Church, W. L., 313
Cibulka, A., 358, 559, 560, 561
Clark, C. L., 72, 334, 792, 957
Clark, D. M., 641
Clark, F. M., 192, 1081
Clark, J. M., 615
Clarke, L. A., 330, 642
Clayton, J. O., 376
Cloud, G. H., 195, 374, 641, 741
Cloud, R. T., 524, 978
Coberly, C. J., 262
Coffey, E. E., 547
Cole, C. C., 66, 547
Coleman, W. R., 52
Colin, P. G., 643
Collett, J. D., 891
Collins, J. H., 889
Collins, J. O., 1006
Combs, C. A., 66
Conklin, G. M., 887
Conolly, G. C., 181, 633, 787
Conry, J. J., 38
Converse, L. C., 421
Cook, E. W., 811, 1009
Cook, M. W., 50
Cooke, A. C. H., 249
Cooley, E. H., 978
Cooper, A. T., 249
Corson, B. B., 634
Cory, R. F., 56
Cosby, J. N., 340, 465
Cottrell, C. E., 1123
Coumbe, A. T., 178
Courter, L. A., 524
Courtney, J. M., 547, 989
Covell, K. A., 66
Cozzens, F. R., 61, 69, 497, 519, 607, 916, 985
Crake, W. St. Me. E., 171
Crandall, G. S., 374
Crawford, T. J., 52, 978
Creighton, T. A., 888
Crickmer, C. S., 66
Crites, W. J., 978
Cromer, S., 155
Crouch, W. W., 488
Crowell, A. M., 912
Crump, J. S., 989
Cuthill, J., 978

Dabell, A. F., 567
Dale, C. R., 527
D'Arcy, N. A., Jr., 158, 248, 413
David, H. E., 425, 1040
Davies, E. B., 404
Davies, G. F., 481
Davies, S. G., 249
Davis, C. E., 68
Davis, E. E., 978
Davis, E. S., 249
Davis, J. W., 98
Davis, L., 942
Davis, L. L., 583
Davis, T. W., 461
Day, R. B., 807
Day, R. J., 255
Deaton, W. M., 175
Decker, C. E., 802, 1028
Deem, A. G., 1075

DeFord, R. K., 204
DeGolyer, E. L., 720
DeLancey, C. W., 246
Delattre, J., 1016
DeMent, J., 579
Denton, F. R., 1037
Denton, H. E., 49
Devon, J., 756, 1116
DeVlieg, G. A., 159
Diamond, H., 811
Dickerman, W. C., 1089
Dickey, P. A., 208
Dicksee, C. B., 275
Dietrich, M. A., 746, 795, 1001
Dijck, W. J. D. Van, 1009
Dijksman, A. J., 115
Dijkstra, F., 377
Dillon, J. H., 586
Dillon, L., 52, 187
Dixon, H., 978
Donnelly, A. S., 212
Dons, E. M., 492
Dornte, R. W., 108
Dott, R. H., 132
Dotterweich, F. H., 784, 855
Doty, P. M., 468
Douglass, R. D., 78
Dourson, R. H., 1057
D'Ouville, E. L., 111
Dow, W. H., 989
Downing, F. B., 1001
Downing, F. W., 811
Downing, R. B., 855
Downes, J. L., 159
Downs, H. R., 66, 262, 629
Drake, H. E., 66
Dralle, H. E., 58, 711
Draper, P., 1123
Drennan, H. B., 787
Dryer, C. G., 360
Dunbar, C. O., 1022
Dunmire, R. P., 455
Dunnell, R. L., 101
Du Pont de Nemours, E. I., 455
Durbin, H. R., 978
Dymond, H., 1009

Eaby, Le R., 556
Earle, C. E., 1009
Earlougher, R. C., 537
Eby, J. B., 1046
Eby, L. T., 480
Eckhardt, E. A., 603
Edelman, M., 833
Edgar, J. E., 201
Edminster, W., 87
Edwards, T. O., 360
Edwards, W. K., 249
Egloff, G., 83, 186, 787, 803, 949, 1001, 1108
Eilerts, K., 1096
Eisner, A., 131
Endersby, V. A., 116
Engel, K. H., 734
Engelke, E. F., 115
Erwin, R. W., 66
Ess, P. R. Van, 1009
Evans, P., 11, 13
Evans, S., 52
Evjen, H. M., 249
Ewell, R. B., 641
Eyring, H., 573

Faith, W. L., 995
Farley, R. C., 445
Farmer, J. O., 424, 876, 902, 1063
Farque, C. C., 978
Farrington, B. B., 376
Faust, P. H., 1098
Fearon, R. E., 524
Fehrer, H., 102, 103
Feising, W. A., 1094
Ferguson, J. B., 888
Ferguson, J. W., 258, 901
Ferguson, K. H., 401
Feuchter, C. F., 458
Field, D. C., 1121
Field, H. W., 184
Fietinghoff, S. C., 524
Figueredo, L. H., 221
Fineman, M. Z., 483
Finke, M. F., 197
Fink, H. L., 463
Fischer, H. G. M., 1001
Fisher, W. H., 414
Fisk, H. N., 505
Fitzgerald, G. F., 451
Fitzgerald, P. E., 315
Fitzpatrick, R., 414
Fitzsimmons, J. T., 588
Fitzsimmons, O., 341
Fleiger, A. G., 124
Fleming, G. H., 465
Flock, B. J., 1001
Flood, H. L., 245, 260, 312, 348
Foran, E. V., 873
Ford, T. F., 117
Forney, W. E., 194
Fortune, J. C., 52
Foster, M. D., 1026
Frances, J. E., 445
Francis, A. W., 1078
Francis, W. C., 978
Frank, F., 196
Franklin, L. U., 795
Franklin, R. B., 66
Fraser, H. M., 115, 744
Frazer, R. P., 1005
Frey, F. E., 365, 641, 1111
Feyermuth, G. H., 194
Friedman, B. S., 807
Friedman, S. J., 108
Frolich, P. K., 493
Frost, E. M. Jr., 175
Fuchs, G. H., Von, 639, 811
Fukuhara, N., 485
Fuller, E. W., 376, 492, 493, 746

Garcia, E. A., 361
Gardner, K. A., 562
Gardner, R. I., 157
Garfias, V. F., 591
Garfield, L. E., 978
Garnar, L. H., 958
Garner, F. H., 738, 1003
Garrett, H. U., 324
Garrett, R. O., 709
Garrison, A. D., 978
Garton, E. L., 177
Gary, W. W., 1090
Gaynor, J. W., 197
Geis, W. H., 706
Gemant, A., 574, 575, 576, 577, 578, 742, 964
Geol. Surv. Canada, 8
George, R. S., 374
Geraghty, E., 414
Gerhold, C. G., 1001
Germain, S. A., 547
Gess, K. N., 602, 759
Gibbons, A. L., 978
Gibson, C. J., 1070
Gilbert, E. C., 481
Gilbert, G. R., 1128
Gillespie, J. W., 445
Gillespie, C. P., 1070
Gilliland, E. R., 466
Gilman, J. N., 989
Ginter, R. L., 133, 210
Gipson, W. W., 52
Giveen, G. S., 989
Glasgow, A. R., 188
Gleason, A. H., 643
Godsey, W. R., 171
Goldman, M. I., 206
Goldsby, A. R., 74, 339, 360, 450
Goldsbury, J., 352
Goodman, C., 680
Goodrich, H. B., 515
Goodwin, H. S., 377
Gordon, A., 461

Gordon, F. B., 623
Graham, A. M., 524
Grant, J., 414
Grant, R. S., 42, 43, 52, 141
Graser, F. A., 915
Graver, P. S., 547
Graves, E. F., 1016
Grayson, R. P., 262
Grebe, J. J., 989
Green, J. B., 368
Green, S. J., 1100
Greenewalt, C. H., 181
Greenshields, R. J., 381
Griesinger, W. K., 128
Grinnell, S. H., 145
De Groote, M., 171, 191, 445, 490, 629, 989, 1070, 1102
Grosse, A. V., 339, 493, 641
Gruenweld, E., 978
Grundy, S. B., 111
Gruse, W. A., 111
Guilletson, E. E., 120
Gunter, A. Y., 951
Gurasich, S. W., 249

Hague, E. N., 634
Hait, J. M., 262
Halbooty, M. T., 678
Haldane, R., 359
Halferty, J. E., 160, 420
Hall, J. E., 66
Halse, G. W., 280
Hamblin, R. H., 1017
Hamilton, L. A., 376, 492
Hammer, O., 445
Hannon, E. F. Jr., 524
Hansford, R. C., 128
Happel, J. Jr., 455
Harkins, T. I., 1046
Harkness, R. W., 84
Harlan, D. L., 617
Harper, J. L., 772
Harrington, P. J., 1005
Harris, T. S., 547
Harrison, N. W., 978
Harter, R. L., 66
Hartgering, J. M., 445
Harth, P. E., 52
Hartmann, M. W., 547
Hartman, W. W., 989
Haskell, N. B., 1104
Hatch, G. B., 339
Hatch, L. F., 552
Hattox, E. M., 379
Havlick, J. L., 159
Hays, B. D., 445
Hayward, J. T., 978
Hazard, W. H., 629
Headlee, A. J. W., 497
Healey, N., 234
Heard, L., 646
Hedick, J. E., 130
Heeren, M. H., 456
Hefley, D. G., 52
Hegy, L., 66
Heidner, R. C., 1131
Heilman, W. O., 455
Heinemann, H., 994
Hellman, L. B., 978
Henderson, G. E., 441
Henderson, J. R., 352
Henderson, L. M., 364
Hendrix, V. V., 63
Hennion, G. F., 477
Henriksen, A., 197
Henry, F. R., 25
Herbert, W., 449
Hering, D., 52, 249
Herring, L. B., 1034
Hersberger, A. B., 1005, 1010
Heyck, J. G., 761
Hightower, J. V., 556, 563, 829, 831
Hildori, W. G., 266
Hill, S. A., 101
Hill, W. R., 91
Hillman, E. S., 746
Hills, J. M., 650
Himel, C. S., 460
Hinderliter, F. J., 868
Hipple, J. A., 1099
Hirsh, M., 1095
Hirst, L. L., 131
Hixson, A. W., 1080
Hobson, R. B., 271
Hodge, A. J., 52
Hoffman, L. A., 989
Hoffoss, J. E., 52
Hogaboom, H. E., 171
Hokauson, M., 159
Holaday, W., 381
Holford, Processes Ltd., 493
Holland, W. P., 52
Hollander, A., 262
Holm, C. F., 187
Hoot, C., 842, 846
Hoover, V. A., 262
Hopkins, A. R., 52
Hopkins, G. R., 178, 179, 327, 495
Horn, W., 171
Horner, W. L., 545, 979, 1054
Hossfeld, A., 313
Houssiere, C. R., 156
Houston Geological Study Group, 501
Howard, J. H., 445
Howard, R. H., 159
Howard, W. V., 136, 137, 220, 281, 283, 285, 286, 287, 314, 525, 612, 663, 670, 838, 848, 849, 1044
Howell, A. H., 123
Howell, J. E., 620
Howell, L. G., 888
Hubbard, D. O., 264
Hubley, M. D., 1021
Huff, L. C., 448
Hufferd, R. W., 1103
Hughes, R. F., 159
Hughes, U. B., 1033
Hulse, S. J., 1006
Hummer, R. W., 486
Humphrey, D. E., 66
Hunt, C. B., 652
Hunter, T. G., 107, 269
Huntington, R. L., 63, 368, 430, 597, 899, 946
Huppke, W. F., 730
Hurst, W., 707

Imbt, R. F., 289, 651
Inderdohnen, J. F., 445
Ingram, R., 297, 303, 597, 685, 816, 847, 851, 852, 856, 972, 1043
Ingram, T. R., 301, 850
Ipatieff, V. N., 237, 450, 493, 634
Irany, E. P., 478
Irons, C., 445
Irwin, B. F., 249
Irwin, J. L., 976
Isley, E. W., 978
Ivanovsky, L., 736, 992

Jackson, R. M., 794
Jackson, T. E., 751
Jacobsen, H. F., 487
Jacobson, E. W., 96
Jager, E. H., 1019
James, W. H., 115, 493
James, W., 1001
Jenkins, C., 978
Jenkins, H. D., 392
Jennings, B. H., 751
Jenny, W. P., 684
Jessen, F. W., 249
Jessup, R. S., 568
Johnson, A. E., 249, 524
Johnson, C. D., 978
Johnson, C. H., 524
Johnson, C. R., 361
Johnson, H. E., 376
Johnson, H. H., 104
Johnson, J., 1054
Johnson, J. R., 472
Johnson, J. W., 989
Johnston, N., 249
Johnstone, W. W., 95
Jolly, S. E., 643
Jones, B., 452
Jones, G. C., 735
Jones, G. W., 640
Jones, L. D., 360
Jones, M. C. K., 360
Jones, P., 1054
Jones, P. H., 313, 978
Jones, P. J., 538, 708, 900, 905, 927, 930, 931, 935, 937, 940, 980, 1062
Jones, W. A., 491
Jones, W. L., 70
Jones, W. R. S., 236
Joslyn, R. O., 547
Ju, T. Y., 430, 807, 899, 1003
Jung, D. A., 218

Kall, R. S., 978
Kamen-Kaye, M., 503
Kanalz, K. H., 324
Kanhofer, E. R., 448, 641, 807
Kaplan, J. F., 460
Kasline, F. E., 599
Katz, D. L., 168, 176, 947, 948, 1123
Kav Eckis, J. E., 1075
Keiser, B., 171, 191, 445, 490, 629, 989, 1070
Kelley, K., 989
Kellog Co. M. W., 641
Kelly, H. J. Jr., 859
Kelso, E. A., 1094
Kemler, E. N., 148, 151, 154, 239, 240, 1051, 1065, 1067
Kemp, L. C., 1005
Kemphert, W. W., 262
Kendall, M. T., 374
Kendrick, J. F., 66
Kennedy, G., 547
Kennedy, H. T., 57, 262, 445
Kennedy, L. E., 392, 393, 515
Kennedy, R. E., 640
Kerstein, N. A., 124
Keys, D. B., 77
Kharasch, M. S., 483
Kimberlin, C. N., 775
King, H. H., 667
King, P. B., 1023
Kingelin, G. G., 910
Kinnear, L. P., 615
Kinnear, C. W., 978
Kinsey, R. O., 203
Kip, C. E., 466
Knapp, R. T., 942
Knouse, W. S., 249
Knowlton, D. R., 163, 164
Knutson, G., 52
Kodak, Ltd., 641
Kolthoff, E., 360
Kopp, E. C., 942
Kornfeld, J. A., 405, 593
Korpi, K., 74
Korpi, K. J., 994
Krantz, A. A., 1103
Krumbein, W. C., 498, 1056
Krutter, H., 255
Krynine, P. D., 387
Kurate, F., 783
Kurtz, S. S. Jr., 468, 1073

Lacey, W. N., 1057, 1069
Lahee, F. H., 611, 679, 1031
Laird, R. O., 52
Lamb, R. A., 262
Lamberger, E. H., 58, 547, 711, 918, 926, 929
Lane, E. K., 615
Lane, J. J., 66
Lang, C. E., 249

Lasz, W. B., 499
Lasser, B. F., 547, 918, 926, 929
Larkin, J. F., 159
Larsen, D. H., 942
Larsen, O., 360
Larsen, R. G., 1115
Larson, A. D., 414
Larson, D. E., 780, 944
Laudon, L. R., 388
Lauriston, V., 298, 836
Laverty, F. W., 87
Lawton, H. C., 171
Lay, A. L., 978
Layne, L. A., 52, 66, 1070
Lazar, A., 376
Leatherock, O., 393, 515
Leaver, G. A. C., 1107
LeBus, F. L., 159, 524
Lee, E. C., 448
Lee, W., 504
Leech, T. B., 88
Leffer, F. W., 740
Lemmon, N. E., 167
Lena, K. E., 775
Leonardon, E. G., 1054
Leprestre, R., 449
Leum, L. N., 82, 374
Levorsen, A. I., 1, 703
Levy, R. M., 109
Lewis, J. A., 545, 704
Lieber, E., 197, 376, 1009
Lietz, W. T., 171
Illick, R. A., 52
Lilly, R. M., 244
Limerick, D. A., 171
Lincoln, B. H., 115, 197, 491, 1009
Linn, C. B., 239, 641
Lipkin, M. R., 468
Lipson, E., 414
De Lisle, G. W., 1123
Loane, C. M., 115, 1121
Lochte, H. L., 488
Lockhard, L. B., Jr., 484
Logan, J., 226
Logan, K. H., 727, 728
Lohman, R. W., 1070
Long, E. S., 978
Long, S. W., 171
Loomis, A. G., 66, 171
Loomis, W. A., 414
Loosen, C. F. V., 524
Lore, A. B., 52
Lotz, F. S., 179, 227
Loutitt, J. R., 648
Love, F. H., 347, 434, 921
Lovell, L. L., 1001
Lovell, R. G., 92, 346, 773, 790
Lowry, C. D., 360, 802
Lukes, M. W., 249
Lundeen, C. A., 52
Lusher, A. C., 249
Lynch, R. C., 159
Lyne, J. A., 171

McAllister, S. H., 1016
McCammon, G. A., 414
McCammon, J. H., 1041
MacClatchie, J. W., 547, 615
McClinton, J., 1054
McClure, J. D., 392
McCormick, T. F., 95
McCullough, I. J., 66
McCullough, J. H., 350
McCullough, O. J., 313
MacDonald, G. C., 609, 629
McElvoy, J. H., 445
McGaffey, E. W., 989
McGraw, E. H., 365, 633
McGrew, E. V., 465
MacIntyre, A. C., 605
McKee R. H., 1070
McKinney, P. V., 1111
McMahan, T. E., 249, 1054
McMahon, W. F., 989
McMurray, R. F., 629
McNab, J. G., 1009
McNamee, B. F., 52
McNulty, G. M., 376
McPherson, G. R., 220, 632
McReynolds, L. A., 1106

Maag, O. L., 114, 1009
Machen, R. W., 93, 945
Mack, C., 122
Madeley, S. T., 1129
Maier, A. R., 524, 978
Mair, B. J., 188, 190, 367
Malinowski, C., 989
Maliseoff, W. M., 1009
Malkin, D. S., 218
Maloney, J. F., 66
Marancik, J. V., 1074
Mark, H., 572
Markz, E. M., 1017
Marmer, C. L., 943
Marschner, R. F., 1005
Marsh, H. C., 66
Marshall, C. D., 795
Martin, A. M., 1082
Martin, H. Z., 1074
Martin, P., 939
Martyn, P. P., 217
Marvel, C. S., 460
Marx, Paul F., 778
Maschwitz, P. A., 182
Mason, C. F., 350
Mason, F., 547
Matheson, G. L., 197
Mathews, L. E., 978
Mathieson, C., 282
Matthew, F. J., 349
Matthews, T. A., 948
Mattox, W. J., 795
Mauney, S. F., 210
Mauro, O. G., 492
Mavity, J. M., 1005
May, C. J., 925
Mazee, W. M., 1054
Meek, C. A., 159
Meier, H. H., 183
Meisaner, H. P., 1091
Melaven, R. M., 111, 336
de Ment, J., 40, 963
Meredith, P., 745
Merkle, G. E., 1009
Merley, S. R., 95
Merrill, D. R., 746, 811
Merritt, J. W., 604
Metzner, L. H., 159
Meunier, P. L., 469
Meyer, W. N., 642
Mikeska, F. J., 321, 374
Miller, A. E., 343
Miller, C. P., 108
Miller, R. J., 414
Miller, H. C., 1055
Miller, J., 1010
Miller, J. R., 1001
Miller, L. C., 547
Miller, R. P., 66, 445
Milligan, C. C., 978
Mills, B., 606
Mills, L. W., 1073
Mills, K. N., 714
Mims, S. W., 978
Minor, B. S., 888
Minyard, J. T., 159
Mississippi Geol. Soc., 10
Mistler, A. J., 395
Mithoff, R. C., 220, 235, 632
Mixon, L. W., 97, 197
Moehri, K. E., 66
Moir, H. L., 812, 1005
Moller, J. A., 375, 1105
Monigham, G. L., 171
Monson, L. T., 66, 128
Montagnes, J., 823
Montgomery, H. A., 989
Moody, L. S., 101
Moon, J., 388
Moore, G. W., 989
Moore, H., 570
Moore, P. T., 539
Moran, R. C., 376
Morell, J. C., 685, 689
Morgan, F., 582
Morgan, J. S., 52
Morgan, S. O., 105
Morian, S. C., 878
Morison, W. J., 1109
Morrell, J. C., 186
Morris, L. C., 777
Morrow, M. B., 452
Morton, B. B., 999
Morton, F., 268, 351
Morway, A. J., 115, 197, 1009
Moseley, C. E., 66
Moser, F. R., 115, 376
Mottlam, A. Y., 1001
Mougey, H. C., 375
Mounce, W. D., 159, 171, 1054
Mueller, A. J., 1001
Muhlbach, A., 159, 1054
Mullt, L. H., 492
Murphy, G. B., 749
Murray, P. F., 524
Muskat, M., 582, 1059
Musselman, J. M., 197
Myers, T. G., 66, 547, 989

Nash, A. W., 107, 269
Neighbors, G. R., 155
Neilson, C. R., 66
Nelson, H. R., 1113
Nelson, J. F., 1009
Nelson, W. C., 101
Nelson, W. L., 548, 551, 553, 1079
Neppe, S. L., 333, 753
Neufeld, J., 414, 524, 978
Nebaus, R., 978
Neumann, L. M., 210
Nevitt, A. R., 734
Newfoundland Geol. Surv., 8
Newman, M. S., 467
Newton, W. M., 523
Neyman-Pilat, E., 114
Nichols, G. A., 52
Nichols, P. B., 888
Nicholson, G. B., 165, 253, 397, 407, 520, 532, 596, 673, 724, 883, 896, 903, 911, 928, 934, 977
Nickels, J. E., 1001
Nielsen, J. R., 569
Nielsen, R. F., 489
Nijk, D. R., 376
Nissan, A. H., 457, 924
Nix, D., 64
Noble, A., 445
Normand, J. S., 171
Norris, M. E., 978
North Texas Geological Soc., 1036
Nygaard, E. M., 374

Oberfell, G. G., 550
Oberwetter, G. T., 249
Ocon, E. A., 1001
O'Connor, C. T., 978
O'Connor, P. E. T., 46
O'Donnell, J. P., 363, 506, 1078
O'Leary, C. M., 262
O'Loughlin, J. F., 813, 1005
Olson, G. R., 990
Oncley, L. J., 1092
O'Reilly, J. O., 998
Orelup, J. W., 187, 201
Ortloff, J. E., 978
Osmus, F. N., 66
Ospina-Racines, R., 36, 222
Oswald, W. N., 978
D'Ouville, E. L., 1005
Overholt, M. R., 615
Owens, E. O., 625

Pacific Sect. A.A.P.G., 4
Page, J. S., 1054
Pan, C. H., 336

Pankratz, H. J., 942
Parker, A. L., 615, 980
Parker, C. K., 79
Parker, E. D., 989
Parker, F. D., 994
Parks, A. S., 620, 942
Parmeson, A., 989
Parsons, C. P., 518, 705
Patnode, H. W., 214
Patterson, E. W., 547, 989
Patterson, G. D., 888
Patterson, J. M., 656
Paulsen, H. C., 734, 741
Paulus, G. L., 959
Payne, B. W., 895
Pearson, J. M., 630
Pease, S. L., 234
Pedersen, C. J., 811, 1001
Peer, A. A., 1128
Peluso, E. S., 638
Pennella, S., 159
Perkins, C. M., 445
Perkins, C. W., 978
Perkins, R. A., 52
Perrine, J. H., 643
Perry, D. D., 445
Perki, A. J. Van, 1005
Peugh, D. R., 1054
Pevere, E. F., 339, 642
Pfarr, J. S., 357
Phelps, C. W., 1131
Phillips, E. E., 376
Pier, N., 115, 1009
Pierce, W. G., 384
Piety, R. G., 249
Pike, R., 925
Pilat, S., 1114
Pines, H., 450
Pinkel, I. L., 131
Piper, J. D., 124
Pirson, S. J., 233, 681
Pitsch, J. A., 249
Pitzer, E. C., 646
Pitzer, K. S., 474, 475, 798
Pleeth, S. J. W., 737, 1110
Poirier, O. A., 390
Poole, J. W., 455, 1007
Popence, W. P., 653
Porter, A. N., 66
Pott, A., 128
Potvin, M. J., 249
Powell, R. E., 573
Power, H. H., 156
Pray, H. A. H., 52
Preckshot, G. W., 1123
Prescott, H. R., 159
Pressprich, O., 302
Pressprich, O. C., 845
Price, P. H., 497, 657
Proell, W. A., 187
Prosen, E. J. R., 189, 707, 798
Protin, E. J., 52
Prutton, C. F., 643, 811, 812
Pryor, C. C., 409, 521, 624, 688, 870, 996, 1015
Puls, J. H., 1070.
Pyle, H. C., 942, 989

Quebec Bur. Mines, 8
Quilter, W. M., 66
Quintrell, H. J., 249

Raab, E. L., 1081
Ragland, D., 445
Rairden, A. S., 978
Rankin, C. H., 62
Ranney, L., 615
Raulerson, H. H., 547
Rauser-Cernoussova, D., 216
Rea, H. C., 209
Rea, P. M., 262
Read, C. L., 187
Read, D., 83
Reaves, R., 398, 510
Records, C. E., 629
Records, E. H., 648
Redfield, A. H., 198
Reed, C. E., 978, 1054
Reed, C. F., 201
Reed, D. W., 582
Reed, R., 344
Refiners Ltd., 380
Reisinger, K., 994
Reitlinger, E., 216
Remy, T. P., 492
Reuter, R., 746
Reynolds, J. H., 249, 547
Rhoades, R., 385
Rial, T. A., 66
Rice, F. O., 646
Richards, L. M., 98
Richter, H., 66
Ricketts, V. L., 1009
Ricon, C. A., 66
Ridgway, C. M., 182
Rieber, F., 52
Riggs, G. D., 204
Risk, T. H., 364
Ristori, J. W., 591
Roberts, A. M., 989
Robey, R. F., 75
Robbins, H. B., 524
Roberts, F. E., 324
Roberts, J. K., 458
Robertson, A. E., 194
Robichaux, S., 52
Robinson, E. A., 571
Rocky Mountain A.P.G., 5
Rodgers, A. L., 615
Rodd, C. C., 1058
Roe, E. J., 159
Roediger, J. C., 747
Roemhild, E. O., 313
Rogers, T. H., 1005
Rohrmann, E. Jr., 464
Roland, C. H., 948
Romberg, J. W., 118
Rosaire, E. E., 511
Rose, F. W., 1073
Rosen, R., 195, 197, 1121
Rosenbaum, E. J., 487
Roseveare, W. E., 573
Ross, H. N., 696
Ross, W. B., 364
Rossini, F. D., 188, 189, 367, 798, 799
Roth, J. V., 264
Rouzer, W. H. Jr., 536
Rowe, S. T., 615
Rowntree, J. S., 87
Ruedrich, P. M., 376
Ruhemann, M., 1101
Ruiz, D. F. R., 242
Rupp, W. H., 795
Russell, H. W., 1113
Russell, R. P., 279
Russell, W. L., 207, 855
Russelland, H. W. R., 52
Ruthruff, R. F., 458, 720
Ryniker, C., 210

Sachanen, A. N., 128
Sage, B. H., 1057, 1069
Sale, H. M., 11
Salim, V. A., 376
Salnikov, I. S., 52
Sample, C. H., 217
Samson, C. A., 13
Sanders, T. P., 41, 54, 55, 228, 309, 316, 395, 419, 516, 614, 626, 712, 883, 885, 938
Sanford, E. M., 236, 292, 332, 422
Santiago, J. J., 414
Saunders, A. T., 67
Sawdon, W. A., 31, 45, 47, 48, 51, 65, 243, 311, 433, 522, 540, 610, 683, 700, 871, 872, 892, 923, 991, 1001
Saxe, W. E., 262
Scafe, E. T., 113
Scalzitti, S. R., 811
Scaramucci, D., 52, 524
Schaad, R. E., 1111
Schaphorst, W. F., 1112
Scharpenberg, C. C., 314
Scheider, F. E., 66
Schenck, L. M., 99, 100, 473
Scherbatskoy, S. A., 414
Schilling, A. A., 492
Schimansky, L. F., 335
Schlumberger, M., 978
Schmidt, B. F., 262
Scholtes, A. J., 249
Schott, J. E., 115, 1009
Schreiber, J. H., 524
Schultheis, E., 615
Schultz, F. R., 324
Schultz, W. M., 52
Schulze, W. A., 187, 455, 777
Schumacher, F. W., 455
Schumann, S. C., 463
Schweyer, H. E., 118
Scivally, B. M., 978
Scott, C. N., 66
Scott, D. W., 475
Scott, F. L., 52
Seager, O. A., 1029
Segeler, G., 331
Seguy, J. D., 641
Seibel, C. W., 199
Seifer, F. M., 261
Serrell, J. J., 76
Setter, J. A., 796
Sewell, B. W. 888
Shaffer, D. U., 615
Shaffer, M. F., 901
Shamblin, W. E., 393
Shankland, R. V., 111
Shappirio, S., 458
Shaw, S. F., 535, 933
Shaw, W. A., 951
Shea, G. B., 758
Shell Development Co., 128, 1004
Shelley, P. G., 66
Shellshear, W. A., 881
Shepherd, V. V., 1054
Sherborne, J. E., 523
Sherwood, T. K., 794
Shiah, C. D., 960, 962, 1087
Shimer, J. M., 247
Shive, B., 488
Shoemaker, B. H., 115, 194, 197
Shope, C. A., 978
Silverman, D., 249
Simard, G. L., 1114
Simmons, D. M., 66
Simons, H. F., 144, 219, 237, 308, 405, 423, 528, 557, 622, 685, 697, 766, 882, 941, 981, 983, 988, 1053
Singleton, F. L., 294, 295, 662, 668, 763, 843, 853, 854, 907, 970, 974
Sipos, F., 330, 632
Skinner, P. B., 989
Skinner, R. W., 989
Sloane, R. G., 115
Smethers, J. A., 989
Smeykal, K., 775
Smith, A. L., 989
Smith, C. C., 124
Smith, C. N., 769
Smith, D. M., 414
Smith, H. M., 210
Smith, J. H., 989
Smith, N. C., 502
Smith, F. S., 2
Smith, R. U., 1096
Smith, S. S., 547
Smith, W. A., 376
Smith, W. M., 197
Smithy, M. L., 1131
Smoley, E. R., 786
Smyers, W. M., 635
Sorem, S. S., 1124
Southworth, R. B., 859
Sowers, W. H., 1001
Spang, F. J., 156, 693, 721

Sparkes, W. J., 643, 1121
Spencer, A. C., 206
Spencer, L., 262, 1054
Spiers, J., 647, 810
Sproule, D. D., 66
Sproull, C. W., 1070
Squire, E. J., 80
Squires, F., 680, 978
Staerker, D., 262
Staggs, H. M., 443
Stalder, W., 1027
Stancliffe, C. W., 969
Standard I.G. Company, 128
Standard Oil Dev. Co., 73, 95, 111, 115, 128, 194, 376, 448, 450, 490, 493, 635, 641, 642, 644, 646, 734, 740, 741, 746, 748, 750, 994, 1005, 1010, 1016, 1017, 1090, 1121, 1128
Standing, M. B., 176
Standt, J. G., 52
Stanley, F. D., 66
Stanly, A. L., 1130
Steadman, H. V., 978
Stearns, G. M., 932, 1064
Steele, J. O., 262
Steiner, W. L., 197, 1009
Steinetz, E. W., 1013
Stekoll, M., 545
Steps, R. A., 969
Sterling, J. F., 1124
Sterrett, E., 166, 238, 619, 857, 987, 1068
Stevens, D. R., 111, 1001
Stevenson, D. P., 120
Stewart, L. E. 368
Stockman, L. P., 17, 290, 595, 770, 822, 835
Stoddard, A. D., 524
Stoesser, S. M., 445
Stolz, H. P., 906
Stone, A. L., 52, 159
Stone, C. E. V., 524
Storch, H. H., 131
Stormont, D. H., 81, 142, 161, 162, 284, 291, 298, 300, 608
Story, R. G., Le, 111, 1001
Straka, F. G., 734
Street, J. W., 586
Streiff, A. J., 190
Strickland, V. G., 111
Stuart, A. H., 743, 809, 1071, 1117, 1125
Stuart, R. W., 52, 978
Stueve, W. H., 417, 627
Stuntz, R. M. Jr., 532
Subkow, P., 635
Suess, F. A., 491
Sullivan, D. E., 631
Surmatis, J. O., 470
Sutherland, J. B., 120
Sutherland, L. H., 340
Swearingen, J. S., 452
Sweet, C. H., 445
Swenson, R. A., 1009
Swift, C. E., 187
Sayyna, A., 455, 458

Talbert, G. W., 1111
Tarbet, L. A., 654
Tarnoski, P. T., 262, 371
Taylor, F. B., 320, 802, 865
Taylor, G. W., 66
Taylor, H. S., 102, 103, 476, 486
Taylor, M. D., 60
Taylor, S. S., 625
Teague, J. U., 310, 428, 445
Tebbetts, W. F. Jr., 66, 262
Teichert, C., 514
Terrell, C. F., Jr., 66
Terry, J. B., 79
Tesendorf, D. E., 262
Texaco Development Corporation, 74, 740, 746, 994, 1005, 1009
Texter, H. G., 42, 43, 141
Thacker, C. M., 337
Thayer, S., 174, 1072
Thelen, E., 812
Thiel, G. A., 390
Thiele, R. W., 183
Thomas, C. L., 365, 458, 787, 993, 1005
Thomas, G. J., 640
Thomas, J. R., 440
Thomas, P. D., 59
Thomas, R. M., 1121
Thompson, E. B., 1111
Thompson, R. B., 262
Thompson, T. J., 482
Thornton, J. F., 1089
Thorp, K. E., 795
Thorpe, R. E., 1115
Thrasher, L. E., 66
Tilley, W. H., 978
Timbs, E., 860
Tompkins, H. K. V., 33
Tongberg, C. O., 465
Torrey, P. D., 879, 908, 936
Tranaue, L. F., 482
Traseler, R. N. 118
Trautman, C. E., 125, 128
Travers, W. J. Jr., 524, 544
Trawick, L. M., 969
Treib, W., 389
Trimble, H. M., 1106
Trowbridge, R. M., 1037
Trusty, A. W., 801, 1000, 1085
Tulsa Geol Soc., 6
Turechek, G. F., 282, 1070
Turner, E. J., 52
Tuyl, I. V., 44

Uhlmann, E. H., 262
Universal Oil Products Co., 183, 634, 641, 1016
Updike, F. H. 600
Uren, L. C., 322, 436, 442, 542, 630, 725, 726, 894, 914, 922, 1047

Van Peski, A. J., 493
Vance, H., 939
Vandaveer, F. E., 70
Veal, C. M., 331
Vegh Garzon, C. R., 675
Veirano, L. J., 262
Villa, M. L., 624
Vineall, G. J. C., 1120
Vollmer, L. W., 942
Vorhees, V., 1005

Wagner, C. R., 364
Wakeman, R. L., 127
Waldschmidt, W. A., 211
Walker, C. P., 615
Walker, J. P., 171, 1070
Wall, F. T., 459
Walling, R. W., 601
Walsh, C. H., 360
Ward, S. G., 1109
Wardwell, R., 173
Waring, W. H., 262
Warren, B. E., 961
Warren, D., 455
Warren, J. B. Jr., 969
Washburn, E. R., 482
Wasson, J. L. 197
Watkins, F. M., 1009
Watson, K. M., 633, 787
Waugh, S. P., 1009
Wayne, T. B., 978
Webb, E. B., 249
Webb, P. O., 171
Weeks, W. H., 795
Weller, J. F., 917
Weinstein, D. H., 159
Weiss, R. Jr., 874
Weitkamp, A. W., 376
Weldell, C. L., 1024
Wellman, F. E., 445
Welsh, C. E., 477
Werenech, C. E., 524
Werey, R. B., 1002
Westhaver, J. W., 1093
Westbrook, W. C., 793
West Texas Geol. Soc., 7, 1035
Wheland, G. W., 482
Whetsell, R. V., 591
Whitacre, C. H., 1010
White, H., 172
Whitehead, J. H., 262
Whitman, W. G., 126
Whitmore, F. C., 97, 104, 464, 465, 469, 470, 479
Whittier, W. A., 197, 376
Wiggam, D. R., 1010
Wiggins, J. H., 629
Wilford, A. T., 1118
Wilcox, O. W., 170, 200, 645, 1083
Willi, A. B., 599
Williams, C. M., 445
Williams, F. R., 52
Williams, G. H., 171
Williams, M., 262, 978
Williams, N., 251, 289, 317, 320, 415, 517, 536, 616, 662, 890, 1052, 1066
Williams, N. D., 813, 1005
Williamson, R. C., 969
Wilson, C. D., 465
Wilson, C. E. 740
Wilson, G. M. 147, 150, 256, 427, 429, 431, 531, 534, 618, 621, 667, 722, 861, 862, 867, 898, 902, 964, 1050
Wilson, J. M., 213
Wilson, J. O., 629
Wilson, J. R., 194
Wilson, J. W., 955
Wilson, R. W., 675
Wilson, W. W., 615
Wineman, W. H., 66
van Wingen, N., 438
Winham, H. F., 1039
Winters, H. D., 377
Wise, P. H., 467
Woelfin, W., 782
Wolff, C. J., 66
Wolthan, H., 774
Wood, C. E., 1003
Wood, J. T., 661
Wood, W. H., 1111
Woods, H. A., 210
Woolman, E. G., 953
Woolnough, W. G., 1024
Woolslayer, H. J., 978
Worthington, E., 1119
Wright, A. E., 547
Wright, K. A., 121
Wyler, J. A., 365

Yager, W. A., 105
Yancey, J. R., 547
Yeatman, C. A., 1054
Yost, L., 969
Young, D. A., 85
Young, J. E., Jr., 1086
Young, R. W., 276
Youngren, H. T., 277
Yule, J. S., 492, 813

Zacher, V. B., 143
Zalkind, L., 471
Ziegenhain, W. T., 86, 838
Zimmer, J. C., 115, 197, 276
Zimmerman, G. E., 740
Zschokke, A. J., 262, 969, 1970
Zublin, J. A., 524
Zuck, D. W., 547
Zuidema, H. H., 639

ABSTRACTS SUBJECT INDEX.

Numbers refer to Abstract Numbers. (P) denotes Abstract of Patent Specification.

Aero Engines :
  fuel economy, 277
  Mercedes-Benz, 276
Africa, market potentiality, 602
Alaska, oil prospects, 2
Alberta :
  Athabaska tar sands, 823
  development, 27, 760
  geology, 12
  new fields, 832
  producing structures, 25, 27
  Vermilion field, 229
Alcohol blends :
  examination, 1110
  Reid vapour pressure, 738
Alicyclic compounds, structure, 463
Alkylation :
  *iso*paraffinic hydrocarbons, (P) 993, 774, 1076
  mono-olefinic hydrocarbons, 774
  plant installation, 773
  processes, (P) 74, 339, 450, (P) 635, (P) 733
Alkyl nitrates, production, 799
Ammonia, synthetic, from natural gas, 555
Argentine :
  Geology, 32
  new discoveries, 824
  production, 30, 223, 396
  refineries, 637
Arkansas :
  conservation statute, 912
  Magnolia Field, engineering study, 1039
  new fields, 292, 397, 818, 844
  Smackover lime pools, 508
Asphalts :
  air-blown, (P) 644
  deformation properties, 117
  gunned, 273
  metal protection, 272
  oxidized, (P) 644
  packaging, (P) 1009
  paving emulsions, 1122
  paving mixture, (P) 644, (P) 749
  preparation, (P) 812, (P) 1009, (P) 1124
  soil stabilization, (P) 377
  wartime requirements, 748
Asphaltic residues, plastics from, (P) 1009
Assam, geology, 11
Aviation fuels :
  blending, 356
  development, 1108
  performance value, 1107
  production, 549, (P) 641
  response to tetraethyl lead, 1130
Benzene, electrical conduction, 106
Bitumen, Asphaltic :
  aqueous emulsion, (P) 1009
  bonding agent, (P) 749
  Bussow recovery method, 119
  mechanical stability, 116
  preparation, (P) 1009
  tests, rheological interpretation, 118
Brazil :
  exploration, 28
  oil prospects, 228
British Petroleum Mission, specifications, 740, 804, 806
Burma :
  geology, 11, 13
  production statistics, 30
Butadiene :
  production from normal butane, (P) 634, (P) 1015
  preparation, 1127
  separation from hydrocarbon mixtures, (P) 1128
Butanes :
  free energies and equilibria of isomerization, 798
  preparation, 946
*iso*Butane, production, (P) 732
tert.-Butylbenzene, reactions of bromine with, 483
*iso*Butylene, production of polymers, 379

Calcium naphthenate, use in paint and varnish industries, 1010
California :
  Arvin field production, 599
  Canal and Strand fields, 601
  Del Valle field, 654
  drilling practices, 41, 158
  field data, 14, 15
  heavy oilfield development, 822
  Los Angeles basin reserve, 770
  Marysville Buttes, 1027
  natural gas reserves, 16
  new fields, 17, 37, 290, 835
  Paloma field, 595, 661
  Poso Creek field, production, 600
  production statistics, 18, 140, 965
  reworked wells, 923
  West Montebello field, 966
Calorimetry, temperature correction methods, 568
Canada :
  drilling practice, 49
  exploration, 827, 836
  future oil provinces, 1, 3, 8
  geology, 12
  new fields, 395

Canada—*cont.*
production statistics, 298, 967, 968, 976
refineries, 81, 1134
Capillary viscometer, 457
Carbon black, X-ray study, 961
Catalysts, aromatization, effect of sulphur, 486
C.F.R. Bouncing Pin, spring-tension balance for, 1133
C.F.R. road tests, 380, 381
Chemicals, synthetic, from petroleum, 552
China, origin of petroleum, 386
Coal, natural gas from, 590
Colombia :
development, 36, 829
pre-Cretaceous sediments, 208
production, 30, 1038
Yondo concession, 23, 222
Colorado :
Eastern, future oilfields, 594
La Plata sandstone, 206
production cost, 252
Contour maps, shadowgraphic, 389
Corrosion :
alloy additions, influence of, 792
soil, 728, 729
tester, 456
Cracked oil, war use of products from, 378
Cracking :
carburization of still tubes, 334
equivalent conditions for commercial reactions, 333
inspection of still tubes, 72
Houdry Process, 71, 180
hydrocarbon oils, 181
Michigan distillates, 447
polyform and gas reversion process, 786
processes, (P) 73, (P) 336, (P) 448, (P) 633, (P) 730, (P) 787, (P) 1074
reaction chambers, 335
T.V.P. process, 785
Crude Oil :
asphaltic substances in, 1123
California, characteristics, 330, 632
density, 176
desalting, 329, (P) 371, (P) 445
Oklahoma, 177
production statistics, 1044
quality improvement, 69
statistics, 328
Cutting Oils, 1125

Dakota, North and South, oil prospects, 6
Dew-point recorder, 796
p-Dialkylbenzenes, preparation, 477
Diesel Fuels :
creosote in, 382
effect of type on engine output, 372
evaluation, 270
improvement, (P) 1005
processes, (P) 374, (P) 642, (P) 742
U.S. army specifications, 373
Diethylneopentyl carbinol, dehydration, 464
*Diiso*butylene, oxidation, 484
2 : 5-Dimethyl-3-hexene, 2 : 5-diol, correction, 471, 472
Distillates, nitrogen compounds in, 99, 100
Distillation :
continuous, laboratory unit, 1103
multicomponent, 962, 1087
open-tube, 1093
Drilling :
Abell field, mud programme, 608
borehole exploration, (P) 978
Californian practices, 41
Canadian Practice, 49
casing strings, 239, 240
casing withdrawal, (P) 978
Chapel Hill Methods, 516
cementing, 44, 50, 46, 155, 234, 610, (P) 888, (P) 978, 1049
combination record, 872
completion difficulties, 236
completion method, (P) 888
contractor's problems, 411
core analysis, 40, 1053
core orientation, 522
deep, 308, 609
detonating agents, 607
directional, 45, 521
drill stem cleaning, 776
economics, 413
electrologging, 249
Gulf Coast methods, 879
heaving shale problems, 156
high gas-pressure control, 517
horizontal, 605, (P) 615
logging, (P) 159, (P) 978
magnetic orientation of tools, 874
marine, 48, 51, (P) 414
methods, 38, 149
mud-acid treatment, 878
mud-analysis logging, 871, 875
mud control, automatic, 869
mud-weight recording, 884
obstruction location, (P) 615
pipe inspection, 885
plugging, 44, 50
practices, 246
pressure, 873
progress, 235
radioactive investigation of holes, (P) 524
record-keeping, 405, 409
salt water distillation, 881
shut-off tests, 877
"sink-holes," side tracking, 408
statistics, 241, 512
time reduction, 147
Trinidad practice, 46
Drilling Equipment :
adaptation, 412
bits, (P) 159, (P) 249, (P) 978, (P) 1053
bits, clogging prevention, (P) 978
bit protector, (P) 1053
blow-out preventer, (P) 888
blow-out preventer maintenance, 692

Drilling Equipment—*cont.*
blow-out preventer rams, 244
boiler maintenance, 693
bridge-plug and Whipstock, (P) 615
cable measurer, (P) 313
cable-strain clamp, (P) 414
care, 688, 694, 695, 696
casing elevator, (P) 159
casing, fibre, 690
casing-head construction, (P) 888
casing recovery, 142, (P) 524, 698
casing scraper, (P) 524
casing-string design, 148, 151, 154
casing, thermal treatment, (P) 978
cathead, automatic, (P) 978
cathead safety device, (P) 615
cementing apparatus, (P) 159, (P) 249, (P) 313, (P) 524, (P) 978
cements, 1047, 1048
coring apparatus, (P) 159, (P) 249
crane, portable, 861
deflecting tool, (P) 978
depth measurement, (P) 524
derricks, removal, 864, 1054
drift recorder, directional, (P) 1053
drilling lines, 859
drilling machine, (P) 313, (P) 978
drilling-string protector, (P) 888
drill-pipe protector, (P) 978
drill pipe, threadless, (P) 249, (P) 524
earth-boring tool, (P) 1053
fatigue determination, (P) 615
fishing tools, (P) 159, (P) 249, (P) 414, (P) 524, (P) 615, (P) 978
hoist, hydraulic, 866
hose-coupling, (P) 159, (P) 249, (P) 524
hose, pressure, (P) 615
hydraulic, (P) 524
improvements, 248
liners, slot design, 242
marine, 870
medium weight, 245
mobile, 145
mud plant, central, 520
mud, system on drilling barges, 863
mud tanks, 977
patents, (P) 52
pile-driving, 51
piling structures, 689
pipe couplings, (P) 313, (P) 414, (P) 615
pipe-cutter, (P) 978
pipe elevator, (P) 615
pipe-threading machine, 407, 867
pipe wiper, (P) 414
pressure-core barrels, expansion chamber, (P) 888
release hanger, automatic, 153
review, 39
rigs, 1052
rigs, mechanical, 47
rig, mobile, 311, 312, 868, (P) 978
rigs, power, 860, 880
rotary, 237, 247, (P) 414, (P) 524, 691
sample-taking apparatus, (P) 888
sharpener for rotary cutter, (P) 159
Drilling Equipment—*cont.*
slush-pump piston, (P) 524
surveying instruments, 249
storage, 1050
tool-box, portable, 862
tool-joints, 42, 43, 141, 157, (P) 159, 238, (P) 978
tool-joints, hard facing, 309
torque converters, 883
travelling block, (P) 414, (P) 978
triplex pump, 882
tube-cutters, (P) 159
tubing rack, (P) 978
unitization, 1051
washer, fluid, (P) 1053
weight indicator, (P) 615
well log, 243
well-plugger, (P) 159
well spider, (P) 414
wire rope, 686, 687
Drilling Muds:
addition of citrus juice, 700
control, 699, 701
cooling, 150
efficiency tests, 143
flumes, 702
fluorescence analysis, 865
new, (P) 159, (P) 313, (P) 414
non-aqueous, (P) 1053
particle size, 886
preparation, (P) 978
resistivity, 523
reverse circulation, 144
salt-cut and lime-cut, treatment, (P) 615
two-zone completion, 876
viscosity control, (P) 615
washout detection, (P) 978
well logging, gamma-ray, 887, (P) 888
well surveying, (P) 414, (P) 524, (P) 978
whipstock, (P) 1053
Drilling Contractors, position, 606
Drying Oils, 997
Dye, petroleum, (P) 1128

Ecuador:
geology, 33
production, 30
Emulsions:
crude oil, viscosity, 782
examination, 737
oil-in-water, production, (P) 739
oil preparations, 201
petroleum, breaking, 191
treatment, 529, (P) 1070
water-in-oil, breaking, (P) 989, (P) 1070, (P) 1102
water-in-oil, prevention, (P) 989
Emulsions, petroleum:
breaking processes, (P) 629
demulsifier, (P) 490
desalting and demulsifying, 262, (P) 445
Engineers, training, 322, 436, 542, 630, 726, 727, 894, 922

Engines :
automotive, bearings, 589
ignition system, influence of fuel characteristics, 588, 1131
Engines, compression ignition, supercharging, 275
Engines, diesel, pre-exhaust pressure, 752
Engines, internal combustion :
effect of friction in air inlet and exhaust systems, 1132
fuel, (P) 1015
heat loss, 274
injection fuel system, (P) 1016
patents, 1129
Ether-oxygen-helium mixtures, application in anaesthesia, 640
Ethyl Alcohol, examination, 1110
Exploration :
geochemical, 497
geodynamic, 233, 681, 683
need for, 136, 137
policy, 593
scientific, 815

Films, monomolecular, changes in pressure, 482
Fires, oil, 567
Florida, leasing activities, 761
Flow, viscous, liquid films in, 108
Fluorescence :
analysis, 802
drill cores, 40
Fluorine, action on organic compounds, 485
Frictional Phenomena, 575, 576, 577, 578, 743, 964
Fuels, substitute, alternative, 756, 757, 758, 949
Fuel Oils :
heat losses, 1112
indigenous fuels, 112
preparation, (P) 113

Gas :
city, 70
high-pressure, measurement of, 947
liquefied, for fuel, 331
statistics, 550
sweetening, 332
wet, thermal properties, 783
Gas producers, application to motor transport, 1109
Gases, separation, 1101
Gasoline :
additives, 1105
blends, volatility, 1104
catalytically cracked, composition, 1073
low-grade, disposal, 724
recovery from crude-oil wells, 939
sulphur compounds in, 362
test methods, 579, 801
Geological Survey, micromagnetic, 684
Geophysics :
echo sounding apparatus, (P) 66
prospecting methods, 26
Geophysical Survey :
electrical resistivity exploration, 772
Geophysical Survey—*cont.*
employment in Canada, 403, 404
expansion, 603
location of cased-off productive zones, 683
neutron logging, 855
Glutaric Acid, (P) 1015
Greases, ball and roller bearing, 745
Gulf Coast :
deep production, 670
development, 664, 1032
ground-waters, salty, 1026
Louisiana, producing and reserve data, 400
marine sedimentation and oil accumulation, 218
new fields, 289, 294, 398, 662, 663, 854
prospects, 402
salt domes, well location, 426
Texas, production and reserve data, 399
Wilcox production, 401
Gum solvent, preparation, (P) 813

Haynesville field, renewed activity, 596
Heptanes :
electrical conduction, 106
free energies and equilibria of isomerization, 798
heats of isomerization, 797
isomeric, heats of combustion and formation, 481
n-Heptane :
aromatisation, 102
dehydro-aromatization, 103
Hexanes :
free energies and equilibria of isomerization, 798
P.V.T. relations and derived quantities, 1094
Hexa-arylethanes, effect of substitution on dissociation, 460
Hexabenzylmethane, 101
Hydrate formation, elimination, 784
Hydraulics, fundamentals, 93
Hydroaromatic Compounds, dehydrogenation with benzine, 98
Hydrocarbons :
aliphatic, isomerization, (P) 493
aliphatic, oxidation, (P) 1015
catalytic conversion, (P) 490
cetane numbers, 1002
chemistry, 1098
distillation, azeotropic, 188
high-molecular-weight, 340
hydrates, 580, 1097
hydrogenation, (P) 731
isolation from petroleum, 190
liquefaction and degasification, 87
nomenclature, 82
oxidation characteristics, 1115
Hydrocarbon Mixtures :
cyclization, 1100
dielectric properties, 1092
saturated, purification, 104
separation, (P) 1015, (P) 1090

Hydrocarbon Mixtures—*cont.*
separator-gas and liquid-, specific volumes and phase-boundary properties, 1096
synthesis, 995
vaporising, flow through unconsolidated sand, 897, 899
vapour-liquid equilibria, 960
Hydrocarbon Oils :
dielectric properties, 1092
purification of used, 445
Hydroforming process, 587
Hydrogenation :
catalytic poisoning in liquid phase, 1075
processes, (P) 337, 449, (P) 634, (P) 731

Illinois :
discovery rate, 671
field data, 19
new discoveries, 818, 840, 857
production statistics, 525, 766
spacing rules, 672
Trenton pay, 1040
wildcatting, 293
Indiana :
new fields, 841
wildcatting, 299
Indoor Oilfield, 410
Insulating Oils, deterioration, 1012
Intramolecular Rearrangements, common basis, 479
Iran, production statistics, 30
Isomerization, thermodynamics in, 1079

Japan, production statistics, 30
Joule–Thomson coefficients, 1069

Kansas :
Barton Arch development, 297
field data, 139, 282
McLouth gas and oil-field, 504
migration of oil, 215
new discoveries, 771, 818, 842
oil prospects, 6
Patterson pool, 1021
Rocky Mountains cementing material, 211
stratigraphy, 216
wildcatting, 767
Kerosine, hydrocarbons in, 367
Ketene, photolysis, 461

Liquids, structure and dynamics, 573
Liquids and Plastics, elastic moduli and viscosity, 574
Liquid–solid systems, performance of propellors in, 1080
Long-chain Compounds, kinetic theory application, 572
Louisiana :
completion difficulties, 236
Darrow Dome, geophysics, 1046
new fields, 843, 844
Wilcox trend development, 292

Lubricants and Lubricating Oils :
addition agents, (P) 115, (P) 376, 744, (P) 811
air removal, (P) 115
aromatic fraction, 571
changes due to use, 491, 583
Chevrolet Varnish Test, 375
colloidal, graphite, 809
crudes, valuation, 570
engine-bearing temperature, 810
extreme pressure, 1113
industrial, classification, 114
plug valves, 746
preparation, (P) 115, (P) 376, (P) 492, (P) 643, (P) 707, (P) 811, (P) 1008, (P) 1121
production from olefin hydrocarbons, (P) 733
reclamation, 271, 808, 1117
simplification of grades, 1118
spectrophotometric characterization, 361
standardization scheme, 1120
synthetic, 1114
test methods, 1006
Lubrication :
effects of superfinish on, 1116
machine tools, 1119
studies, 582

Meters :
calibration, 96
oil well, 959
precision control, 1001
Methane - propane - *n* - pentane system, phase behaviour, 1056
5-Methoxy-10-methyl-1 : 2-benzanthracene, synthesis, 467
Methylene, structure, 461
Mexico :
production statistics, 227, 830
refineries, 1134
Michigan :
deep rotary drilling, 609
new fields, 302
production, 845
Middle East, production statistics, 30
Mississippi, new fields, 292, 845
Montana, Cedar Creek anticline, 1029
Motor Fuels :
addition agents, (P) 111, (P) 641
anti-knock, chemical composition, 366
from heavier hydrocarbon oils, (P) 458, (P) 807
high octane production, (P) 111, 363, 548
improvement by blending, 364
*iso*butylene, (P) 111
preparation, (P) 111, (P) 365, (P) 641, (P) 741, (P) 807, (P) 1004, (P) 1111
storage as emulsion, (P) 111
substitution of butane for propane, 1106
sulphur restrictions, 803
Multiple Carbon-Carbon bonds, reduction, 450

Naphtha, reformation, (P) 1016
Naphthenic Acids, tertiary, 488
Natural Gas :
California consumption, 991
density, 948
exploitation in Great Britain, 992
Italian development, 263
reserves, 16
Turner Valley analyses, 83
Natural Gasoline :
California plant, 94
high-pressure absorption, 89
manufacture, 945
statistics, 179
Nebraska, Forest City Basin, 839
Neopentane, reaction of bromine with, 483
Netherlands East Indies, production statistics, 30
New Brunswick, geology, 8, 12
New Mexico :
development, 1035
field data, 669
Lea County development, 676
Permian basin, 667
Tansill formation, 204
Nuclear Physics, geological application, 680

Ohio :
Clinton sand drilling, 697
exploration, 837
new fields, 394
Oil and Gas Properties, development, operation, and valuation, 709, 714, 900, 905, 927, 930, 931, 935, 937, 940, 980, 1081
Oil Dermatitis, 1007
Oil-fields, world survey, 224
Oil-field waters, bibliography, 1030
Oil-shale, recovery of hydrocarbon oils, (P) 648
Oklahoma :
Anadarko basin, 303
City Pool, geology, 133
City Wilcox sand, secondary recovery, 168
Osage County, geology and oil resources, 392, 393, 515
production, 846
stratigraphy, 210
Olefins :
catalytic hydrogen peroxide, 369
chlorination, 800
polymerization, 97, 465, 469, 470
preparation from acetylenes, 480
preparation from ketones, 110
reaction with solid cuprous halides, 466
separation from gaseous mixtures, (P) 1090
Organic compounds, dielectric properties, 105

Paraffins :
branched-chain, thermodynamics, 475
Paraffins—*cont.*
conversion of normal into *iso*-, (P) 493
gaseous, heat capacity, 474
refractive index, 468
Pennsylvania, exploration, 834
Pentanes, free energies and equilibria of isomerization, 798
*cyclo*Pentane, Raman spectra, 487
Peroxides, production from propane, 585
Peru :
Aguas Calientes, 29
field development, 35
production, 134
Petroleum Distillates :
nitrogen compounds in, 473
sulphur compounds in, 370
Petroleum Gas, liquefied, 446, 955
Petroleum Geology :
buried sand-bar, 971
central Louisiana, 505
Colombia, Honda district, 1025
complexly faulted dome, 762
fault lines, sealing effect, 658, 1042
laccolithic mountains, 652
monocline, 975
New Mexico, Mississippian formations, 388
New Mexico, Permian, 1023
New Mexico, Seven Rivers formation, 500
oil-field structures, 659, 660
Permian basin, West Texas, 650, 1023
post-Appalachian faulting, Kentucky, 385
pre-Cretaceous, Texas, 1019
Salado formation, New Mexico, 499
salt domes, 858
sedimentary structures, 592, 1024
Silurian graptolite zone, Texas, 1028
Smackover lime exploration, 972
stratigraphy, California, 655
stratigraphy, Dakota, North, 1018
stratigraphy, Montana, 1017
stratigraphy, Texas, 271, 656
stratigraphy, Upper Gulf Coast, 20
Third Bradford Sand, Pennsylvania, 387
trace slip faults, 391
unconformities, 283, 1045
Upper Cretaceous formations and fauna, 653
Philippine Islands, drilling operations, 31
Photochemistry, 963
Photogeology, 209
Pipe Lines :
cathodic protection, 68, 172, 326, 990
cleaners, internal, (P) 547
corrosion, 173, 174, 630, 631, 777, 778, 1071, 1072
length in U.S.A., 327
temperature, 175
zinc anode protection, 779
Pitch, use as liquid fuel, 494
Plastics and Liquids, elastic moduli and viscosity, 574

Polymerization :
aliphatic diolefinic hydrocarbons, (P) 733
butylene conversion, (P) 183
depolymerization, (P) 775
hydrocarbon oils, (P) 183
isoolefins, (P) 635
olefins, (P) 775, (P) 993
processes, (P) 74, (P) 635, (P) 775
removal of over-polymerized constituents, (P) 775
thermal, 182
vapour recovery plant, 338
Power alcohol, production from molasses, 805
Producer Gas, performance of petrol engine on, 647
Production :
air-lift method, 533
back-pressure tests, 711
bottom-hole pressure, 1063, 1065
brine disposal, 625
chemicals, 315
chlorination, electrolytic, 938
completions, multiple zone, 56, 530, 919, 981
completion practices, 544, (P) 989
completions, swabless, 531
completions, two zone, 435
condensate sands, 323
conservation costs, 251, 252
conservation methods, 163, 721, 725
core analysis, 262, 705
costs, 418, 421, 723
curtailment, 53
deep pay exploitation, 281
electrification, 627
emulsion treatment, (P) 66
flow tank vapour recovery system, 254
flow of vaporizing hydrocarbons, 430
freezing in flow lines, 984
gas cycling, 616, 907
gas injection, 896
gas jetting, 317
Gas Lift, (P) 66
gas- and water-oil ratios, 57
gatering, 429
gravel packing, 617
gravity gathering system, 541
lifting methods, 535
hole size, 310, 428
liner cleaning, 316
liner installation, 54
liner washing, 55
logging, caliper, 518, 706
logging, geochemical, 604
logging, radioactive, 207, (P) 414, 682, 892, 909
logging, thermal, 527
metering, California practice, 540
methods, 64, 710, 941
natural gas storage in depleted sands, 437
oil-gas separation, (P) 1070
oil reservoir behaviour, 1054
oil-water separation, 623
packing, gravel, 914, 915
Production—*cont.*
paraffin removal, 419, 621, 626, 898, 908
permeability measurements, 255, 261, 1055
porous media, 63
pressure maintenance, 161, 536, 891
pressure prediction, 542
pressure regulation, 424
productivity index, 545, 913
proration, 170
pumping, hydraulic, 906
pumping tests, 58, 712
reconditioning, 890
recovery, secondary, 936, 979
recovery, ultimate, 933
repressuring, 162, (P) 445, 902, 903, 911
reserve estimates, 314, 539
reservoir drainage, 916
reservoir, pressure stabilization, 1066
reservoir technology, 1058
sabotage prevention, 265, 1062
salt-water disposal, 624, 895, 982
salt-water reduction, 321
sand carving, 165
sand permeability, 438
sand plugging, 985
scale removal, 622
sealing porous formations, 262
South Jennings plant, 526
swabbing, 938, 988
tank batteries, 528, 532
trends, 250
unitization and repressuring, 620
war economics, 443, 444
war problems, 442
water disposal, 62, 167, 422
water floods, 320, 431, (P) 445, 537
water movements, 708
well cleaning, (P) 66, 253
well delivery problems, 901
well spacing, 439, 538
wells, stripper, 917
wild well control, 432
Production Equipment :
band-wheel drive, 441
bottom-hole pressure truck, 986
care of, 715, 716, 718, 719, 720
casing bridge, (P) 547
casing-head equipment, 171, (P) 999
casing joints, leakage, 59, 722
chokes, (P) 445
christmas tree, marine, 928
cleaning unit, steam, 987
completion apparatus for submarine wells, (P) 445
core analysis, 60
corrosion, 1068
counterbalance for oscillating beam, (P) 547
coupling, (P) 629
flow apparatus, (P) 324, (P) 629, (P) 989
flow measurer, (P) 629
flow valve installation, 160, 420
flow valve test, 618

Production Equipment—*cont.*
fluid regulator, (P) 629
gas lift, 904, (P) 942
gas-lift valve, (P) 547
generating plant, central, 425, 434
gun perforator, (P) 66, 260, (P) 262, (P) 547, (P) 989
heater, (P) 547
hole plug, (P) 989
intermitter mechanism, (P) 324
liner slots, cleaning by explosive, 889
meters, 423
modernization and reconditioning, 427
motor, submersible, 262
mud scraper, (P) 989
oil-well strain gauge, (P) 547
packer, conical, (P) 989
packer tester, 983
packing, gravel, (P) 942
packs, permeable, (P) 942
perforation cleaner, (P) 989, 1061, (P) 1070
perforator, gun, (P) 66, (P) 260, (P) 262, (P) 547, (P) 989, (P) 1070
perforator tubing, 910
permeability determination, (P) 989
pipe coupling, (P) 942, (P) 989
pipe joint, (P) 445
pressure recorders, 259, (P) 445
pressure unit, differential, (P) 445
pumping apparatus research, 1064
pumping apparatus tests, 416
pumping, centralized, 256
pumping system, hydraulic, 713, (P) 1070
pumping unit, submersible, (P) 989
pump-rods, load and stroke calculations, 926, 929
pumps, (P) 66, 166, (P) 262, (P) 324, 417, 440, (P) 445, (P) 547, (P) 629, (P) 942, (P) 989, (P) 1070
pumps, sucker rod, 932
rod hanger, (P) 989
salt-water gauge, 534
sampling devices, standardization tests, 519
sand and gas excluder, (P) 989
scraper, paraffin, (P) 989
screen pipe, (P) 66
screening apparatus, (P) 262
sealing device, (P) 547
separators, (P) 324, 415, (P) 942
steel conservation, 717
strain-gauge, submersible, 918
sucker rods, care, 628
sucker rods, fatigue, 433
swabs, (P) 445, (P) 547, (P) 989
tubing hanger, (P) 445
tubing head, (P) 324, (P) 989
valves, (P) 547, 920, (P) 1070
valves, freezing prevention, 934
well cleaner, (P) 547, (P) 989
well packer, (P) 547, (P) 989
well screen, (P) 629
well treatment, (P) 989
Prospecting tactics, 511

Refineries:
Canada, Mexico and U.S.A., 1134
corrosion reduction, 1085
fuel consumption, 495
Grapeland field, Texas, 793
Lake Charles, Louisiana, 348, 355
power requirements, 359
protection, 952
three-way, for war production, 1083
use of coal in, 342
world survey, 636
Refinery Plant:
butadiene preparation, equipment, 563
condensation system, 950
cooling water circuits, organic fouling, 349
cracking-still tubes, chromium alloy in, 957
fins, longitudinal, 951
flow and heat loss, 92
fractionators, 90, 351, 353
gas absorbers, 794
gas-heated tubes, radial temperatures, 368
heat exchangers, 78, 562
heaters, electrical, 76
isobutane production, 565
lines, insulation, 346
metallized, 1086
piping design, 358, 559, 560, 561
Ponca City solvent refining units, 788
skimming plant, 789
solvent dewaxing and finishing plant, 85, 86
Stedman unit, 268
steel, cathodic protection, 91
sub-cooling system, 791
substitute metals and alloys, 998
tube corrosion, 357
turbines, 352
welding grooves, 451
welding practices, 566
Refining:
acid, of distillate oils, 1081
adsorbents, granular, 341
Azeotropic binary mixtures, 77
Benderlead sulphide treating process, 558
butane production, 997
colour deterioration inhibition, (P) 455
colour removal, 343
cooling towers, psychrometry, 557
decolorization, (P) 455
desalting, 354, (P) 360, (P) 455
desulphurizing, 345, (P) 455, 999, (P) 1000
Girbotol process, 347
Gray process, 1082
heat exchange, 954
heat-transfer data correlation, 264
improvement of products, 455, 790
mercaptan removal, 80, 455, 564, (P) 735, 956, (P) 1000
mixed solvent extraction, 269
naphtha treatment, 350

Refining—*cont.*
nomenclature, 82
N.P.S.H. and centrifugal pump, 958
100 octane gasoline production, 186
processes, 88, (P) 95, (P) 360, (P) 639, (P) 735, (P) 795, (P) 1000, 1089
reflux distillation, 84
silica-gel, 734
sweetening processes, (P) 95, 184, (P) 360, 455, (P) 795
wax separation, (P) 360, (P) 795
Resins, petroleum, 1011, 1014
Retrograde Condensation, 489
Rocky Mountains :
new developments, 301, 850
oil prospects, 5
Rumania, production statistics, 828

Sarawak, production statistics, 30
Sedimentary Rocks, reflectivity, 214
Shale Oil :
Russian production, 753
Swedish production, 814
Solvent Extraction, 107
South Dakota, new fields, 765
Spectrometry, mass, gas analysis by, 1099
Spectroscopy, application to hydrocarbons, 569
Sulphur, removal from gasoline, 267
Sweden, shale oil production, 278
Synthetic Products :
effect of war on, 451
products of olefins with sulphuric, 75
Synthetic Rubber :
bibliography, 1126
characteristics, 586
development, 645
production, 551, 553, 556, 750, 995, 1013, 1077, 1078

Tanks, Storage :
corrosion, 67
evaporation from, 943
expansion roofs, (P) 547
minimization of loss, 780
painting, 781
roofs, drainage, (P) 629
roofs, vapour saving, 325
volatile liquids, 944
Texas :
Central, Wilcox trend, 668
drilling rig, 245
Eastern, discoveries, 851
Eastern wildcatting, 665
La Gloria conservation programme, 251
new developments, 284, 291, 295, 296, 818, 970, 974, 1036, 1037, 1043
new pay, 597
Panhandle activity, 219
North Central, discoveries, 852
Permian Basin, development, 300, 847, 856
Sewell-Eddleman area, 651
South, development, 1034
Texas—*contd.*
South Cotton Lake field, 213
South-west, Carrizo production, 763
South-west, discoveries, 853
Tansill formation, 204
West :
development, 666, 1035
field data, 22, 669
future oil provinces, 6, 7
geology, 22
Permian Basin, 667
Wilcox activity, 673
wildcatting, 614
Yates sand-gas problem, 212
Tinning, hot, mineral oils in, 581
Toluene, from petroleum, 79
Transvaal Torbanite, technical study, 754
Trimethylacetic acid, reactions of bromine with, 483

Unconformities, subsurface recognition, 498
United States :
completions, 152, 230, 287, 307, 612, 613, 675, 760, 764, 768, 819, 821, 838, 969
drilling activities, 146, 406, 613, 760, 817
future oil provinces, 1, 4, 5, 6, 7, 9, 10
Mid Continent, stratigraphy, 133
new fields, 305, 849
pipe-line statistics, 327
production and refining, progress, 279
production statistics, 286, 306, 319, 383, 848
refineries, 81, 1134
reserves, 285, 304, 598, 678, 1041
South-Eastern, development, 1033
wildcatting, 611, 679, 820, 1031
U.S.S.R. :
new fields, 833
production and reserves, 546
Syzran, carboniferous Foraminifera, 216
Uruguay, refinery capacity, 638

Vapour Liquid Equilibrium, 109
Vapours, pressure-temperature chart, 1095
Vaporization, latent heats of, 1091
Venezuela :
Hombre Pintado, 280.
Lake Maracaibo, drilling, 48, 51
Mulata field, 231
new field, 135, 138
North Central, "Ortiz Sandstone" and "Guarumen Sandstone" group, 503
production statistics, 21, 22, 24, 30, 34, 506, 507, 831
Vinyl Co-polymers, 459
Virginia :
exploration, 834
gas discovery, 657
Viscosity Function, 478

Wax, extraction from sugar cane, 584
Welding, electrode specifications, 1088
Wells :
  capacity determination, 1057
  location on salt dome, 509
  reclamation, 519
  repair and redrilling, 1050
  spacing, 501
West Indies, exploration, 825
World :
  consumption statistics, 591
  crude output decline, 826
  petroleum possibilities, 220
  production statistics, 288, 318, 649
  survey of oil-fields, 224
Wyoming :
  La Barge region, 205
  oil-fields, 816

BOOKS REVIEWED AND RECEIVED, 1942

Numbers refer to pages.

American Association of Petroleum Geologists, *Possible Future Oil Provinces in the United States and Canada*, 53A
Stratigraphic Type Oil-Fields (U.S.A.), 216A
American Petroleum Institute, *Specifications—Additions and Supplements*, 128A
de Araujo, A. S. *See* Pilar, F. A. B.

British Standards Institution, *Camouflage Colours*, 442A

Christianson, L. F., and Horne, J. W. *Photomicroscopy of Salt in Petroleum*, 442A
Coke-Oven Managers Association, *History of Coke Making and of the Coke-Oven Managers Association*, 442A

Ellis, Carleton, *Printing Inks, their Chemistry and Technology*, 169A

Geological Society of Glasgow, *Transactions*, Vol. XX, Part II, 1938–1942, 489A

Himus, G., *Fuel Testing—Laboratory Methods in Fuel Technology*, 2nd Edition, 489A
Horne, J. W. *See* Christianson, L. F.

Iliffe & Sons, Ltd, J., *Modern Diesel*, 128A
Imperial Chemical Industries Ltd, *Endeavour*, 128A
Institute of Marine Engineers, *Transactions, Vol. 53*, 442A
Institution of Automobile Engineers, *Proceedings, Vol. 35*, 127A
Institution of Chemical Engineers, *Transactions, Vol. 18*, 127A
Institution of Mechanical Engineers, *Proceedings, Vol. 145*, 127A

Judge, A. W., *High-Speed Diesel Engines*, 128A
Junior Institution of Engineers, *Journal, Vol. 51*, 128A

Natural Gasoline Association of America, *Proceedings of 21st Annual Convention*, 442A

Patnode, H. W. *See* Trask, P. D.
Pilar, F. A. B., and de Araujo, A. S., *Consideracoes sobre as Propriedades Anti-Detonantes do Alcool e seu Emprego como Combustivel*, 489A

Society of Chemical Industry, *Reports of the Progress of Applied Chemistry*, Vol. XXVI, 1941, 488A

Tapsell, H. J., *Creep Properties of Steels Utilized in High-Pressure and High-Temperature Superheater and Steam Pipe Practice. Part I. Carbon Steels*, 442A
Trask, P. D., and Patnode, H. W., *Source Beds of Petroleum*, 331A

U.S.A. Supreme Court, *Report of Proceedings in the Case of the Standard Oil Companies of New Jersey, 1909–10*, 127A

PRINTED IN GREAT BRITAIN BY RICHARD CLAY AND COMPANY, LTD.,
BUNGAY, SUFFOLK.